# **Aviation Week** & Space Technology

July 29, 1963 SPECIAL REPORT:

U.S. Industry In Europe

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By Kitherest Johnson

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downed to other DOSAS objectives. Presently, these would include the multiple Adult to reduce hids were the some few companies which contributed in the first that if advand it will not submemberly meabour. Ann is being accorded by

## More DOD Centralization Urged

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#### Walker Sets Altitude Record With X-15 Educate AVS Cold-Unified site tedy around of \$10,000 ft, \$56,7 mo 1 for

curre developed 99,380 lb. shows on. north are \$ 15 new \$14.750 ft are a finder M. White. This is an altitude stored Done Princetonale Flight Record hight to \$50,000 ft or higher, with take New (180 cm, east of Benn) to

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Curtiss-Wright Rolls Out X-19 VTOL Fact of the X19 accessor VICG encode ground to be built by Contro Weathr Corp. online a Streetling effective contact was relief not last work at the company's Caldwill, N.J., development lawfor. Feet flight is wholsked for October, with Right testing from to be completed on faccount 1965. Assembly a magnetable tree Language TVI technology common DAW Age. 5, FREE, as fell which there

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STL's Mueller Replaces Holmes Washington-Dr. George E. MacEcc, both internally and with industry. Dr. Edward R Dell STL van novident TO, A OPER CONTROLOGY LABORITHM THE fight programs on Sopt 1. He was the top recommendation of Dr. Ruben F Metter STL sendent who are feet offered the sob in NASA Adjustments meter Fun Blang a love of sincere-

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#### Scout Destroyed: Re-entry Test Fails Weblighter-Second attenue to the phases libber have arreston augment

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#### Titan Transtage Restarted Twice During First Long-Duration Firing

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TFX Escape Rocket Reduffer-cooled that is fabricated of

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#### **News Digest**

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proved by President Charles de Graffe to secreté Cere, Foel Stebles ou rival

#### AIR TRANSPORT

### Nations Agree to Retain IATA Fares Role

Twenty-two governments discuss international rates: U. S. firm on representation at traffic conference.

Ottowa-Ratewaline turbuses of the International Air Transport Assa. traffic conferences will be ratassed, with savier medifications to a result of a Although the meeting was conducted graceally to be prepared them. recrimination (AW forc 3, p. 36), two heated presents disorded the needs found peace. These was the secretor of concessors reservolution at traffic conferences and the rule of nonwards to conference voting on

resolutions. The U.S. streets objected governing on the bear reposition A conbers, Andre, on Seet 7 Mentes of the receive here waters that a vest annument, value rate but susualty

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Pan Am Rejects Route Solit New York-Pin Assesses World Among had work artesfort's proposed from Tours

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#### U.S. Manufacturers' Rejections Led to American's BAC 111 Order

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Northeast Seeking Cancellation of Debts

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## AIRLINE OBSERVER

\* Recognition of the bilated as transport agreement between the U.S. efficient chapters in the besit principles of the appropriat as well as to the

enchange of moters. First Beitel: Ascorb Cosp BAC 111 twin set transport, in Beitig United \* Dougles Aircraft Co. trans has been selected by the Federal Assisting.

Acres to instell an all-weather landing nation on a Douglas DC-5 let typeport is a preserve extent of one which can be retrained on the mission's enumerical pri a tends (AW Apr 23, p. 70). Specie Flooris Co., vocting with Durelle, will awayin its attacked SP-30 actualet, additional fields matmacross and identific controls. United Air Lanca will screen white breed Stronged schenoer between Sprint Union and Itse have apparently were

\* Diversion of Eastern Air Lines' postengers on the Winkington-Ottown more to Canadam and U. S. government and multiproperated transports two capitals. Light traffic has devend Entere to our interpolities store in paret basiness trust in bandled be railtien transport executions.

\* Cml Assessment Board has reled that the explaine decomprouses which

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#### SHORTLINES

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Major U. S. Airports-Part 6:

## Idlewild Sprawl Poses Transfer Problems

By Robert H. Cook New York-New York (Milesish) In-Eren as the authors were betterly tow paperts or executively deside International Aspect, or shoet 90% of the cost of Dalles and 75% of the propert is O'lbis mend of the blad of "Pinenberd

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#### NEW LIGHT ON THE FUTURE

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#### Time tells you

The Prett & Whitney PT-6 turbine engine talls its high performance story in terms to any d specifications, the low words, but nower PT-8 powers a wide range of rotary and fixed wino avoraft. For these reasons, the PT-6 has been chosen for twelve installations of which seven are presently flying.





TWA TERMINAL building is connected to a standard until to be cause of about take providing alone space for operation of ground support reliefes. Firstly visible at top centre in the covered "transpare" biliterial support which will be tack down to control

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fights a week within South America

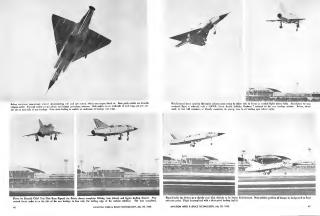


Balzac VTOL Shown in Vertical, Hover and Lateral Flight Modes



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#### AERONAUTICAL ENGINEERING



IN CONVENTIONAL COMPOURATION the Recent PHI STON, bosoned union of about 230 fet

## Breguet 941 Features Stability. Safety

Asistion Week Pilot Report: Br Methert I, Colonan

Lendon-France's prime entry in the short takent and hadden sixtaft connectation, the Record 941 fourtuboson transport (AW Jaly 15, n. 77). is a freed-wise amplice with believpter characteristics and built is rately The agends demogratured how recently to Royal An Fours. British Areas and British Ecompose Arrenys, is bring probed premarily as a walities frame pert, but the compress, Somete Associyas des Abeliers d'Assarian Lonn Becount as larged-ing sales offerts in the rood morbit, stressing the 940's

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surumes. The Boggest \$41 will be flows to the U.S. meet you fac a week of notretal in France and Africa con adding th profest STOL crash/him and another 78 folds with 6,900 ft was

In the U.K., wanednite interest of being shown by Buttsh Argy and BAF. The Seatch as force round one VTCL ict trasport-the Whitwool-Gloster AW 661-is available. In oddtion. HEA is considered methan of

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BRUNE SERVICE REAFS with room calcul artist beigh of wing beiling edge (below) Same Experienced 100 day , and order Supe, also used as partial alleauer, extend to 78 day.





BLUESIG STOL OF LATIONS, made of which indicates becomes a selector fight book along such preserved added indicates. Preserved

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Impediately on touchdown, full reroad (-15 deg pith), power off sed controlled up to the full step. In woother lending the same performance Doring a maximum performance es well made 750 it at \$3 in its elumbed sharply to 700 ft in a flight der about the house. The observe radicator, a three-light device, in front The secret has the resul consider ewest of Digital watermarks, resembled to a Taxonerment and including a radio

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For the subtant tergon Burnet of

USAF Role Sought for Modified Bresnet 941 Post-McDetech Arrests Cop. of St. Loui is infering a new version of the maple. The Model 1889 appropriate a winder of medifications to meet U.S. reprinces Modification regeneral in McDowell and Buyest are a Larry budge roughly of healthy 79% of all U.S. whereal and tracket maktury reliable. Finalized levels has been accurated by 3 ft. and width by 6 as \*Fight-speakle corps door for student of heavy companies . Stragtered bedag you to point you and hoding workt mount and Inquired power until \$500-the Terms SD technology. This was engine. The Barrart 941 modulous has been flown by a resear of U.S. salets at Stites. radialize USAF when two the Plate Test Center of Edwards AFE. Noticed Transe with McDerarit on the Model 1816; recipet an Continental Motor

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#### healest abbots at sand-used residut unts. Deurs is bood on Forak executor in Alona. SA 330 Reflects French Mobility Concept

Page-Proach dougs for the Soil SX. I bon present a new as doubt CAW lone. mallion for the contracted descinoscent 190 technic pea and light consport and count beliesper (AW Apr. 13, p. 34) offices a new Pepels enlitter mobility Folia de coment acresso, also nerr

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BASIC SA 228 configuration is thown in later drawing share. Wide doors on each pile and

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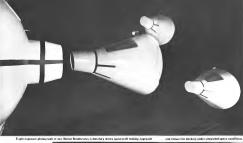
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Chinook Unloads Paratroops in Army Tests Averaging CH-CA Chinek Inforpts is there dopping posterops doing a text once recently at Pr Brigg N. C. Turchwees from

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#### MANNED RENDEZVOUS: New Rendezvous Laboratory

at Martin investigates closure and docking techniques Prindezvous et artisting spassorett is all indiagens

science of precision without precedent, dependent largely on booster accuracy and extremely sophisscience, Martin has built a unique Rendezvous,



lates complete closing and docking

MARTIN







B-26, T-28, L-19 Furnish Air Cover Over Vietnam



#### Victorians or force T35 fire close support

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AWATION WEEK & SPACE TECHNOLOGY, July 27, 1763

AVARION WISK & SPACE RECHISCOST, ANY 29, 1943 AVARION WISK & SPACE II

#### SPACE TECHNOLOGY

## Five-Segment Motor Tested Successfully

To India Store County Cold Africanoment 12thin Air review motor broad while server liset configuration produced in this country, was test fired successfully July 20

for use in deal strip-on units for USAF Space Systems Div.'s Titted 3C space Account Greened transferry Titan NC's first flight is scheduled for spens. 1965 adoted a critical suferious in the Titus. Scoton has been obtained in firem

ic't that belieg of the 128 in motor comed with firmst ventus control tests to come have a personnel state or seems and o' the thought.

there report the adolpropelline is 125 m. mate is pergramed for darky marks occur from both Definier. Navonber This will be the operational configuration and deliver electric from Bro. Grave P. Miller (D.Cold.) leases the speaker of the storest sup Gray F said (D'Can) Monther Rep Emilio O Daddana (D beganing with the November tool Corn.) Miles and he hand the one notably sell be condensed as a could be a si the 120 in motor would mostidy bots. This will be followed case DOD to reposide and ontace unidocupethet maters. The 546 millapping schedule further development of the larger raction has been out to \$16 million surraced development motors are being Some for characteristic cubilities supplied to II 1 Thompson Fiber See Ca (Marc) and Thorness Maximum thrust developed not about

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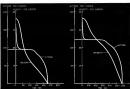
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· Balletic recently logistics spacecraft \*Liftur mestry become budge tree logates sospered: Contract for by NASA') Marged Specifical Country

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CE TECHNOLOGY, July 29, 1943





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BETTON INDUSTRIES, INC.

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Now the DG-9 gives sixtines the opportunity to extend this passenger swelling jet service to routes from 100 to 1500 miles... serving other the big jets overprox. These smaller communities account for more than 60% of the passenger miles now flower.

## New passenger magnet on short routes, Douglas



The DIGW will carry from 50 to \$5 passengers, opening on the oil server, join (2000 to \$000 to





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Government Hardware Sales Policies Outliner

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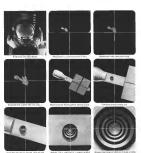
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## Rendezvous in space

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ANAZION WEEK & SPACE TECHNOLOGY, My 29, 1942



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REDLANDS. CALIFORNIA A DIVISION OF LOCKHEED AIRCRAFT CORPORATION



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Two MH3 personnel carriers, on: 2½-ton truck loaded to highway weight, our 165 and howiters on carriage, and soldiers. Total paytons! 76,094 lb. Distance transportable: 2,850 merical miles. This is a typical example of how the new C-145 text-lifter will give MA35 the artifit covers to

increase the Army's air mobility.

The StarLifter will also transport 154 treops, 127 paratroops. And it can earry many combinations of men and machines, including oursize whiches that never could be arribed by we before

The C-141's truck-bad height or deive-on ramp rear-loading design permits immediate access to the 7,000 cube foot clear cube cargos area. For palletted cizigo, the C-141 will use the new 463L mechanized loading system. In a matter of nimules, the big turbofan surfifter can be loaded and be on its way to a destination anywhere on chirth Process; record: The first C-141 Shart-liker will Process; record: The first C-141 Shart-liker will a surface of the control of the contro

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Lockheed C-141 StarLifter



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## California Firms Study Contract Warnings

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**Bolls-Royce Chairman** Sees Profit Rise Hope

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### AVIONICS

## FAA Selects Integrated Landing System

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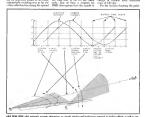
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## LETTERS

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## MOTTON MEASUREMENT AND NAVIGATION







Gemini, America's two-man rendezvous spacecraft, will utilize a reentry technique involving a combination of lifting and abilistic trajectories. After retrograde firing, the crew will position Gemini's off-set center of gravity with attitude control jets to reorient the drag vector and create a component of lift. This lift will enable the crew to precisely maneuver Gemini to any point in a landing area encompassing 28,000 square miles (more than three times the area of the state of Massachusetts). A paragilder will be deployed in later flights, enabling the astronauts to control their glide to a prepared landing field.

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